



# Water Treatment for the POWER INDUSTRY

Water and fuel are the basic raw materials of the Power Industry, where there is a growing demand for these diminishing resources. Efficient use of feedstocks and preservation of generating assets support a sustainable path for operations. ChemTreat provides the expertise and technology to facilitate the best use of available resources, maximizing availability and reliability while meeting environmental compliance.



## Experience

The average ChemTreat field engineer has 18 years of water treatment experience. They are placed in the geography of their choosing and typically remain in that area until they retire. This translates into the lowest representative turnover in our industry.

## Service

The Power Industry has seen a decline in plant staffing over the past 20 years. ChemTreat's unequaled service focus makes us uniquely qualified to deliver superior results within all plant systems.

## Technical Support

Our highly-qualified individuals are among the best in their fields specializing in specific areas that are important to power producers: high-pressure boiler/HRSG (internal, feedwater, and condensate treatment), cooling (main circulating, auxiliary service, and closed cooling water, including thermal storage and treatment), pretreatment (clarifier, demineralization, reverse osmosis, and filter aid treatment), Zero Liquid Discharge, FGD systems, wastewater treatment, and fugitive dust control treatment.

## Cost

ChemTreat maintains one of the lowest cost structures in the industry by hiring only experienced field representatives. This hiring practice prevents the need for a multi-layered management structure, allowing us to offer significant competitive advantages including increased responsiveness and reduced product costs.

## Monitoring & Automation

ChemTreat Solutions® and CT Vista™ knowledge management systems allow for the monitoring and/or control of your water system from anywhere, 24/7. Our systems check, recheck, and report on hundreds of water quality parameters like ORP, pH, and corrosion via smart phones, tablets, computers, or a control room DCS. You can rest assured knowing you will be notified any time an alarm event occurs. Users can also use these tools to automatically feed the appropriate chemical doses in their systems.

## Quadpolymer Technology

Quadrasperse® provides superior performance gains where terpolymers were once considered the only solution. Quadrasperse® dramatically improves corrosion and deposit control effectiveness, optimizing system performance and integrity under the most demanding high-stress conditions. It can also be directly measured and controlled, making unknown dispersant residuals a concern of the past.

## BOILER/HRSG WATER SYSTEMS

Specialty chemicals and services relating to all phases of pretreatment, internal treatment, and condensate/feedwater systems:

- Lay-up treatment & procedure development for cycling plants
- Performance studies
- Steam purity studies
- Iron transport profiles
- Corrosion studies
- Laboratory, water, deposit & metallographic analysis
- Chemical feed & control equipment
- Fuel oil treatment
- NO<sub>x</sub> injection water analysis & assistance
- FDA, USDA products

## COOLING WATER SYSTEMS

Specialty chemicals and services relating to all phases of treatment for open recirculating, closed, and once-through cooling water systems:

- Scale & corrosion inhibitors
- Dispersants
- Biological treatment chemicals & studies
- Corrosion studies
- Nontoxic "Green" products, low & no phosphorus programs
- Chemical feed & control equipment
- Mollusk/Macro-fouling control programs

## MEMBRANE SEPARATION (RO/UF/NF)

- Complete line of anti-scalants and biocides
- Process cleaning chemicals & procedure development
- Data normalization
- Predictive analysis

## FLUE GAS DESULPHURIZATION (FGD), SCRUBBER SYSTEM SOLUTIONS

- Deposit control agents to minimize scaling
- Sorbent optimization
- Settling aids for solids removal
- Heavy metals removal programs
- Antifoam & odor control programs

## DUST CONTROL & MATERIAL HANDLING TREATMENT SOLUTIONS

- Complete line of wet suppression & foaming agents for coal & fly ash dust control
- Ash water treatment chemicals & technical expertise
- Chemical feed & control equipment
- Ash stabilization chemistry
- Coal flow aids

## WASTEWATER & ZLD TREATMENT

- Complete line of coagulant & flocculant polymers for TSS reduction
- Metals removal treatment products & strategies
- Water re-use modeling & support
- ZLD treatment products & support
- Automated chemical feed & control equipment

## SUPPORT SYSTEMS

- Laboratory studies
- Engineering services
- System diagramming
- Chemical cleaners
- Bulk & tote bin deliveries
- Chemical feed & control equipment
- Water testing equipment & chemicals
- Trend analysis, data processing, graphical analysis, & cost analysis
- Operator training
- Knowledge management software





ChemTreat, Inc.  
5640 Cox Rd. Glen Allen, VA 23060  
800-648-4579 / 804-935-2119  
[www.chemtreat.com](http://www.chemtreat.com)  
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